

FIG. 1

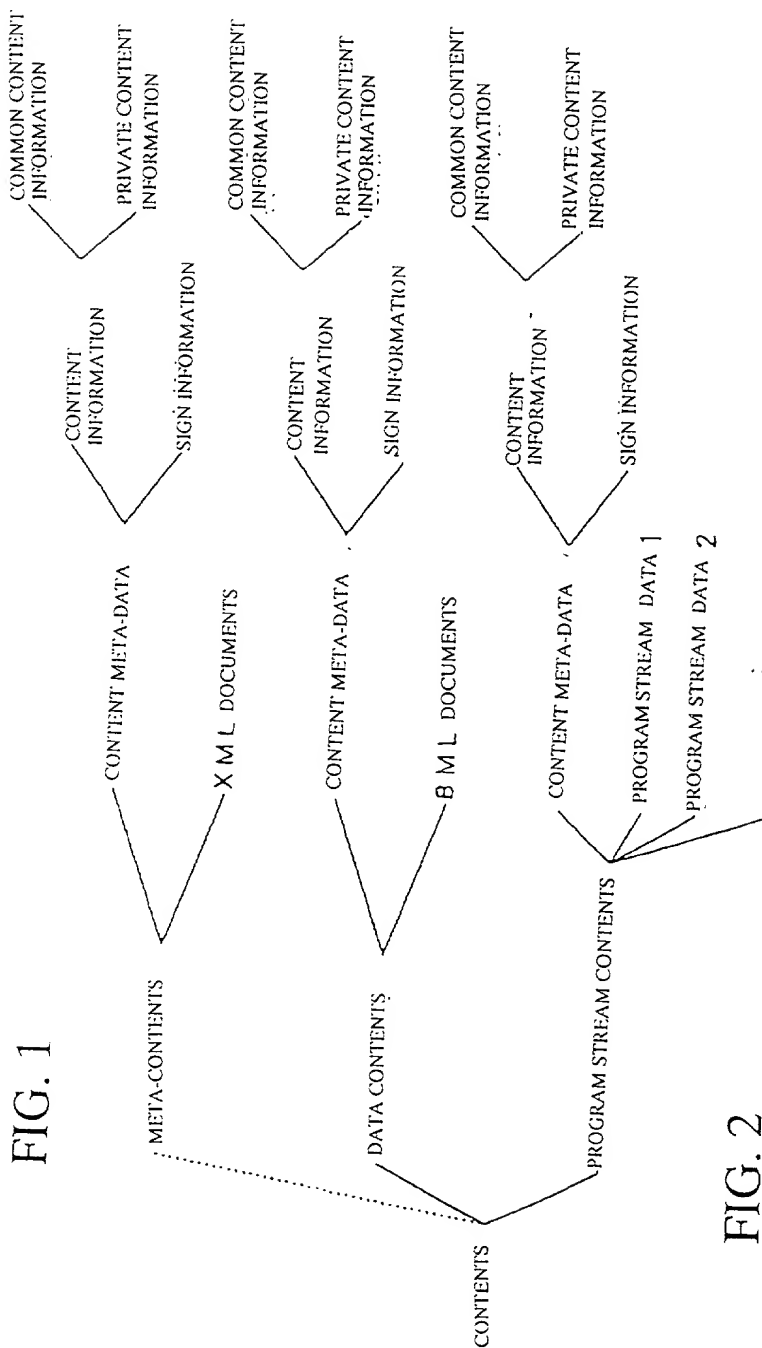


FIG. 2

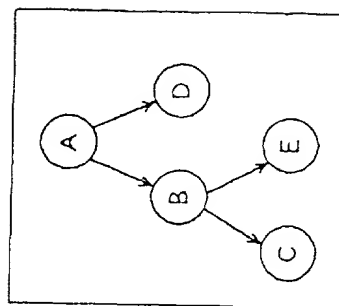


FIG. 3

```

<!ELEMENT ServiceCompInfo public_key, (storage_id_info)*, (element_service)+,
    (storage_info)*>
<!ELEMENT public_key EMPTY>
<!ELEMENT element_service (content_group)+, (storage_id_info)*>
<!ELEMENT content_group (storage_id_info)*>
<!ELEMENT storage_id_info EMPTY>
<!ELEMENT storage_info (ird_level_list)*>
<!ELEMENT ird_level_list (storage_id_list)*>
<!-- ATTLLIST ServiceCompInfo
info_major_version      PCDATA  #REQUIRED
info_minor_version      PCDATA  #REQUIRED
information_provider_id   ID_NUM  #REQUIRED
information_provider_name CDATA   #REQUIRED
information_provider_char CDATA   #REQUIRED
work_area_size           PCDATA  #REQUIRED
first_bml                ID_NUM  #REQUIRED
>
<!-- ATTLLIST public_key
version                  PCDATA  #REQUIRED
key                      PCDATA  #REQUIRED
limit                    DATE    #REQUIRED
>
<!-- ATTLLIST element_service
element_service_id       ID_NUM  #REQUIRED
element_service_name     CDATA   #IMPLIED
element_service_char     CDATA   #IMPLIED
first_bml                ID_NUM  #IMPLIED
schedule_info            (ON|OFF) OFF
>
<!-- ATTLLIST content_group
content_group_id         ID_NUM  #REQUIRED
content_group_name       CDATA   #REQUIRED
content_group_char       CDATA   #REQUIRED
first_bml                ID_NUM  #IMPLIED
>
<!-- ATTLLIST storage_id_info
storage_id                ID_NUM  #REQUIRED
>
<!-- ATTLLIST ird_level_list
ird_level                 PCDATA  #REQUIRED
>
<!-- ATTLLIST storage_id_list
storage_id                ID_NUM  #REQUIRED
storage_policy            (0|1|2|3|4) 0
exclusive_storage_av      PCDATA  #REQUIRED
exclusive_storage_data    PCDATA  #REQUIRED
>

```

FIG. 4

```

<!ELEMENT ScheduleInfo (content_info)*, (next_schedule)*>
<!ELEMENT content_info (schedule)+, (filtering_pattern)+>
<!ELEMENT schedule_list (schedule)+>
<!ELEMENT next_schedule (schedule)+>
<!ATTLIST ScheduleInfo
  info_major_version      PCDATA #REQUIRED
  info_minor_version      PCDATA #REQUIRED
  information_provider_id ID_NUM  #REQUIRED
  element_service_id      ID_NUM  #REQUIRED
  >
<!ATTLIST content_info
  element_content_id      ID_NUM  #REQUIRED
  content_major_version   PCDATA #REQUIRED
  content_minor_version   PCDATA #REQUIRED
  data_type               (STREAM|FILE) #IMPLIED
  content_size            CDATA   #IMPLIED
  >
<!ATTLIST schedule_list
  transport_stream_id     ID_NUM  #REQUIRED
  original_network_id     ID_NUM  #REQUIRED
  service_id              ID_NUM  #REQUIRED
  >
<!ATTLIST schedule
  start_time              DATE    #REQUIRED
  duration                PCDATA #REQUIRED
  >
<!ATTLIST filtering_pattern
  layer                   (1|2)   #REQUIRED
  def_version             PCDATA #REQUIRED
  FieldID                 ID_NUM  #REQUIRED
  info_version            PCDATA #REQUIRED
  pattern                 CDATA   #REQUIRED
  >
<!ATTLIST next_schedule
  transport_stream_id     ID_NUM  #REQUIRED
  original_network_id     ID_NUM  #REQUIRED
  service_id              ID_NUM  #REQUIRED
  >

```

0916510.000101

FIG. 5

## COMMON CONTENT INFORMATION

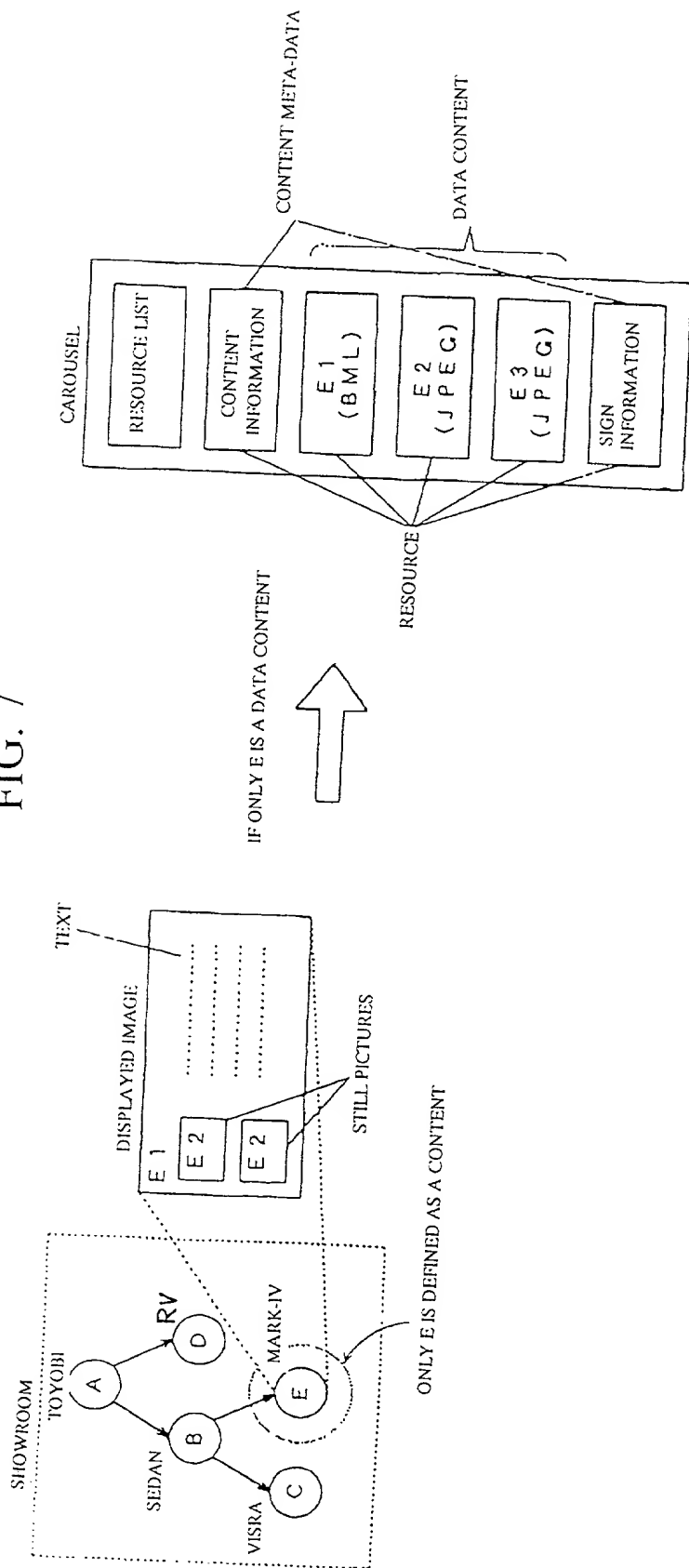
```

<!ELEMENT CommonInfo (comp_info+)>
<!ELEMENT comp_info (comp_content+)>
<!ELEMENT comp_content EMPTY>
<!ATTLIST CommonInfo
  information_provider_id ID_NUM #REQUIRED
  service_type (0|1|2|3|4) #REQUIRED
  element_service_id ID_NUM #REQUIRED
  content_group_id ID_NUM #REQUIRED
  storage_id ID_NUM #IMPLIED
  major_version PCDATA #REQUIRED
  minor_version PCDATA #REQUIRED
  activation_time DATE #IMPLIED
  expire_time DATE #REQUIRED
  expire_policy (0|1) 0
>
<!ATTLIST comp_info
  ird_level PCDATA #REQUIRED
  limit DATE #REQUIRED
>
<!ATTLIST comp_content
  element_content_id ID_NUM #REQUIRED
  necessary (ON|OFF) OFF
>

```



FIG. 7



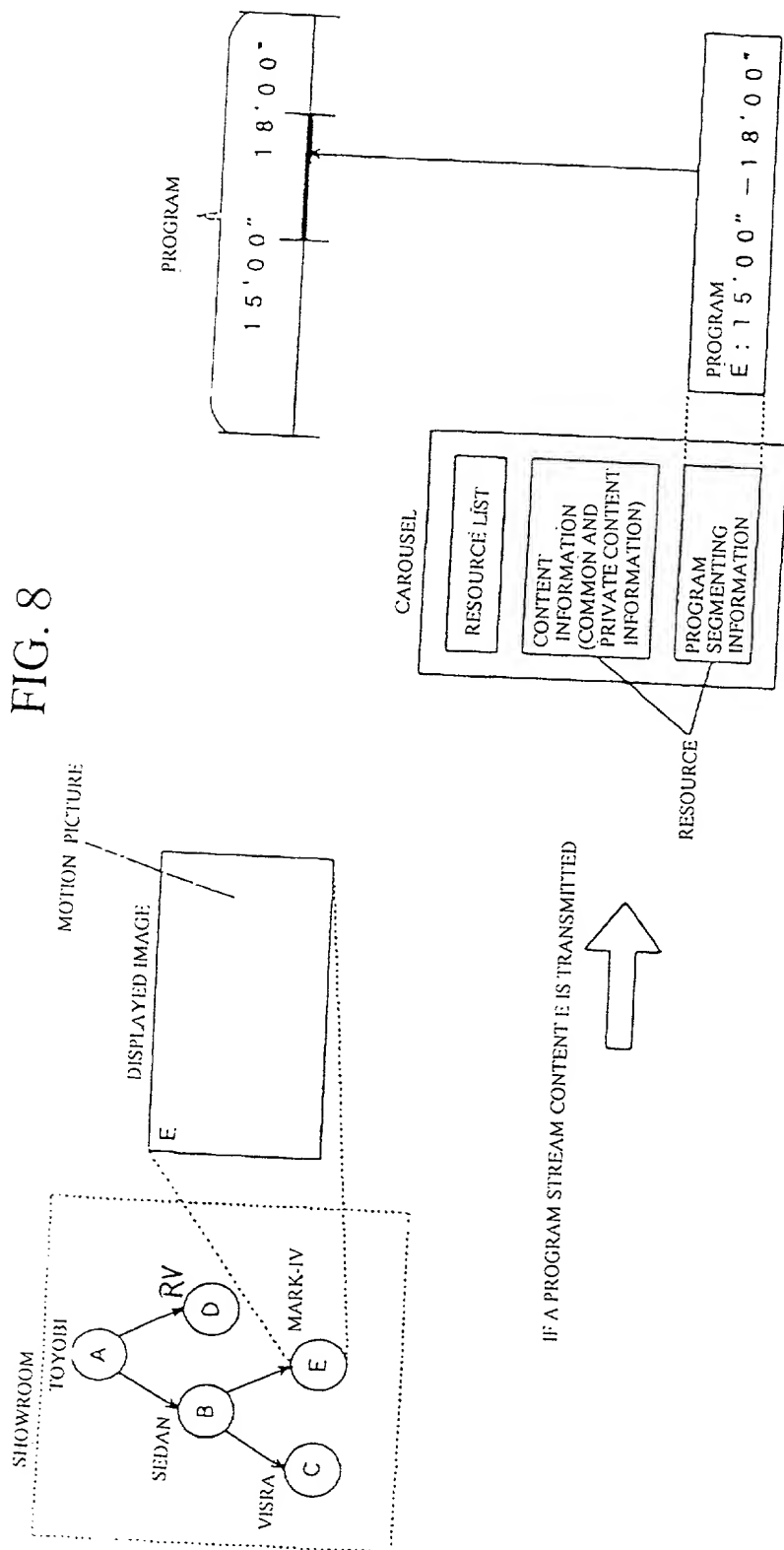
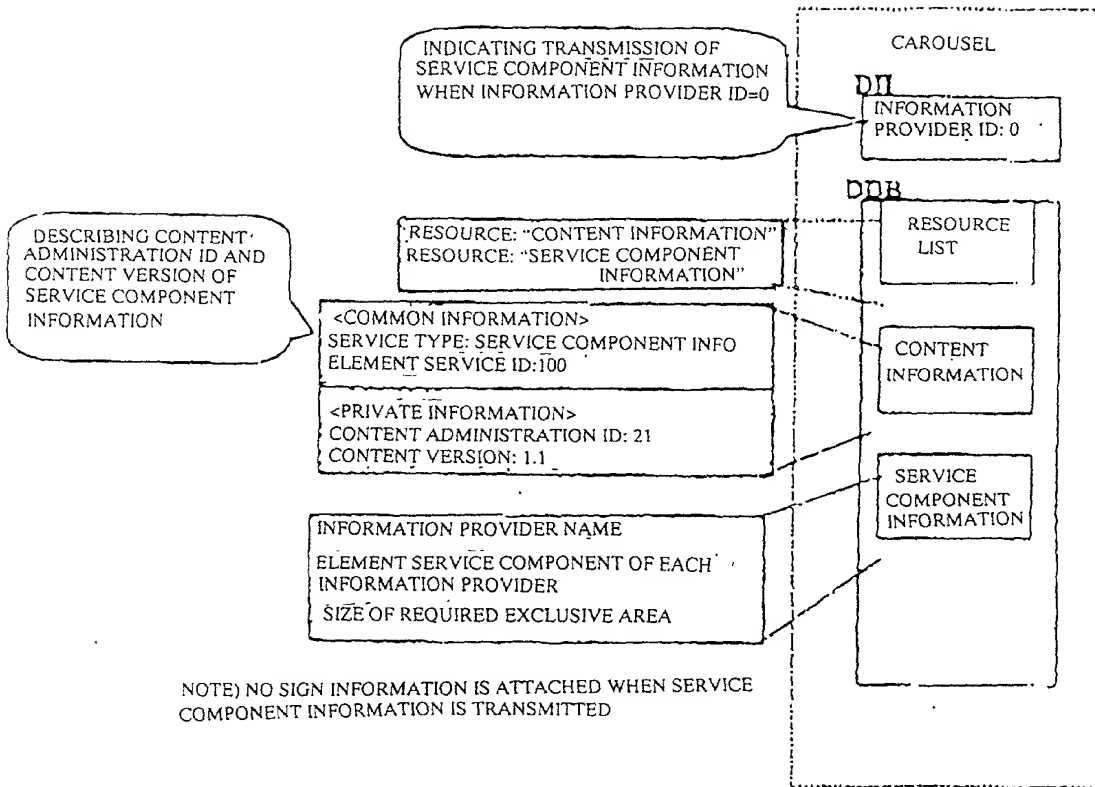


FIG. 9



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FIG. 10

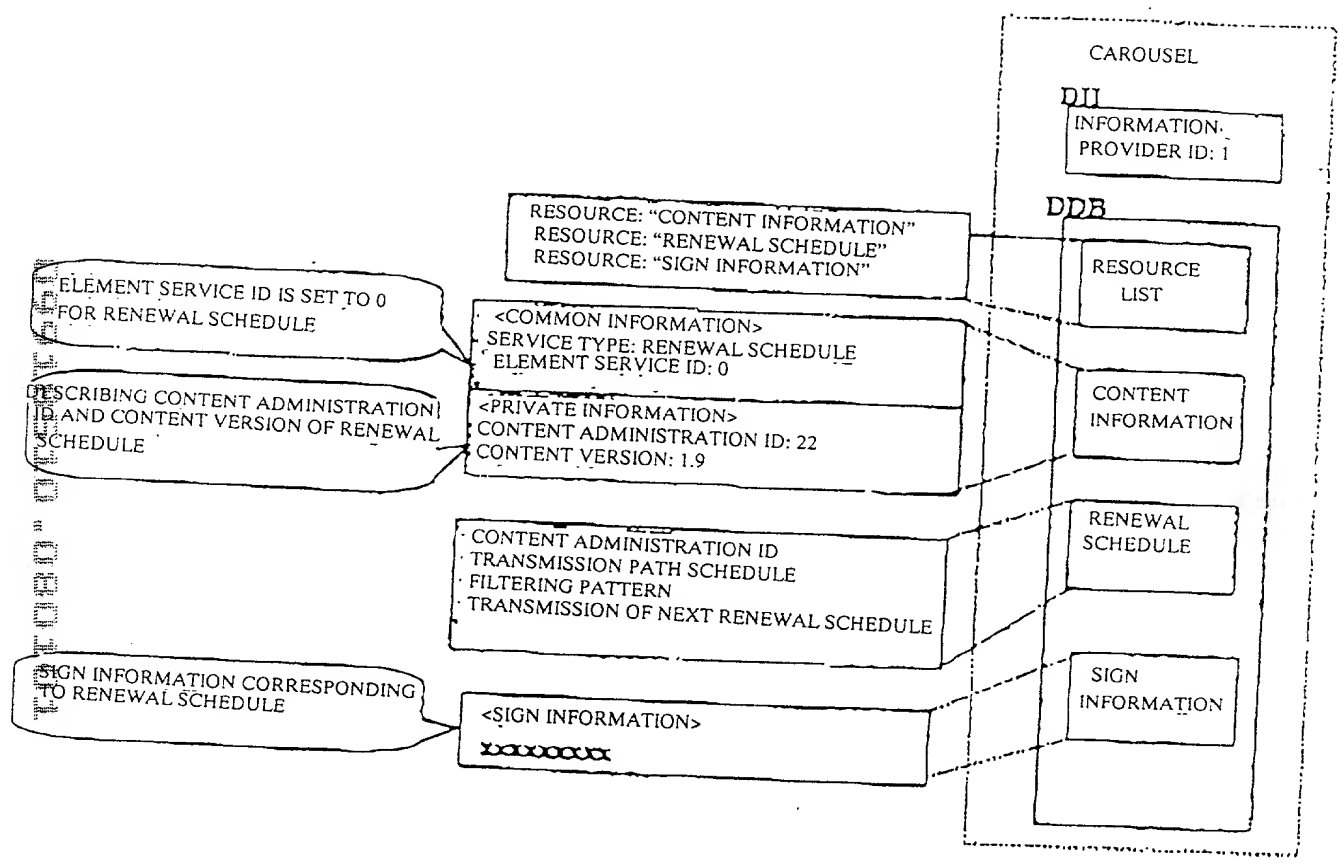


FIG. 11B

<COMMON INFORMATION>  
 SERVICE TYPE: 4  
 ELEMENT SERVICE ID: 3  
 PROVIDER: 34  
 COMPONENT CONTENTS: D32, D33, D38, D42, D49  
 COMPULSORY CONTENTS: D32, D33, D38  
 ACQUIREMENT TIME LIMIT: 2000/02/29 5:30  
 EN FIRE VERSION: 2.0

<PRIVATE INFORMATION>  
 CONTENT ADM. ID: D32  
 CONTENT VERSION: 1.1  
 FILTERING PATTERN:  
 EXPIRATION:  
 first\_bml: yes

<PRIVATE INFORMATION>  
 CONTENT ADM. ID: D33  
 CONTENT VERSION: 1.0  
 FILTERING PATTERN:  
 EXPIRATION

<PRIVATE INFORMATION>  
 CONTENT ADM. ID: D38  
 CONTENT VERSION: 1.2  
 FILTERING PATTERN:  
 EXPIRATION

<PRIVATE INFORMATION>  
 CONTENT ADM. ID: D42  
 CONTENT VERSION: 1.6  
 FILTERING PATTERN:  
 EXPIRATION

FIG. 11A

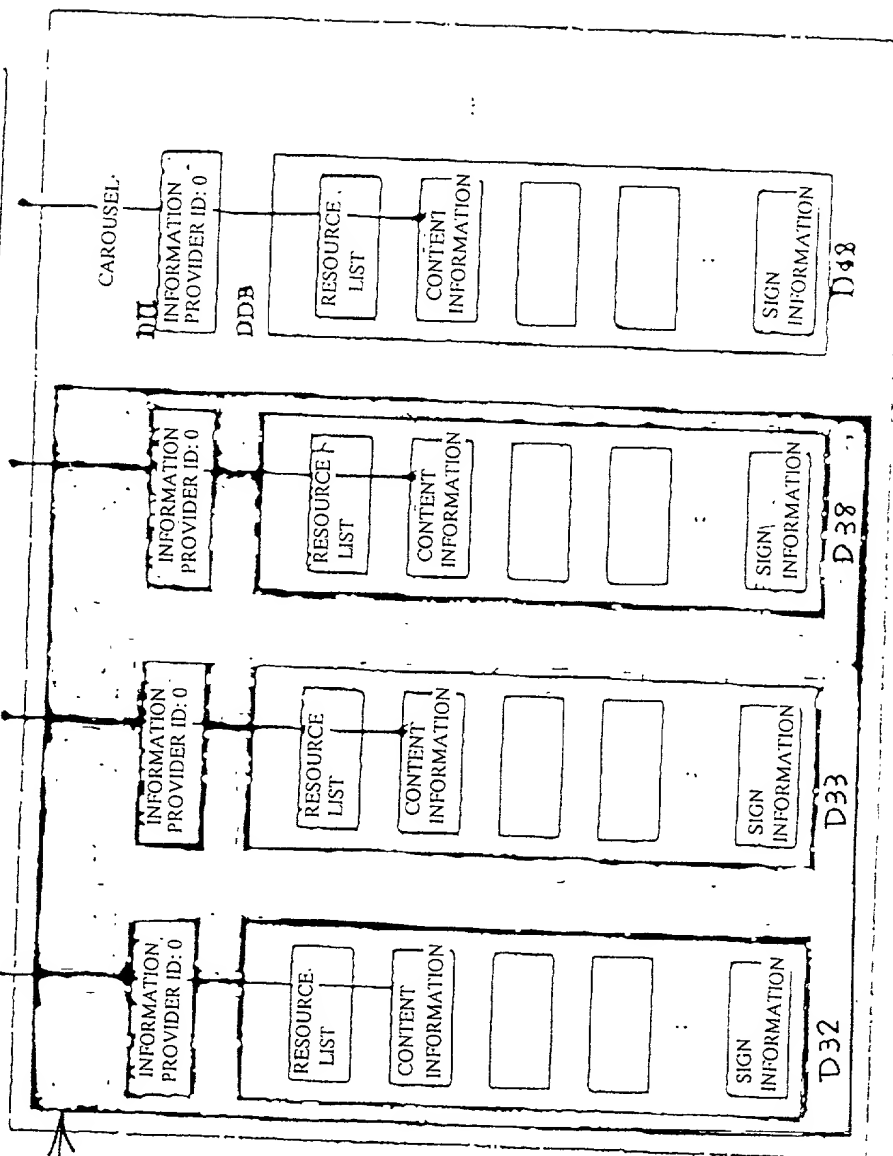
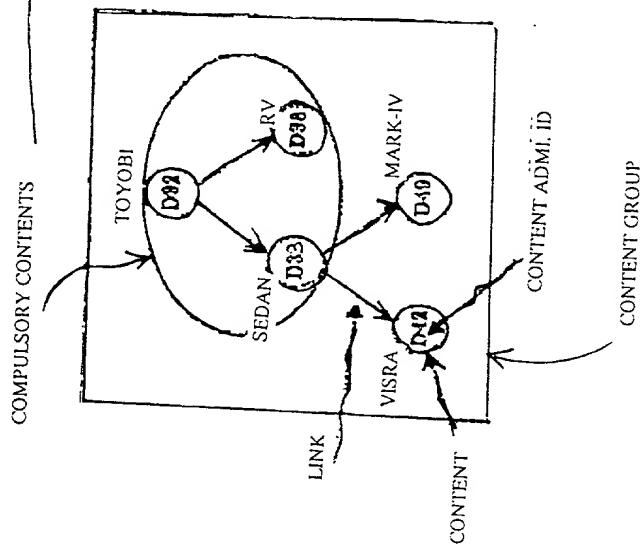
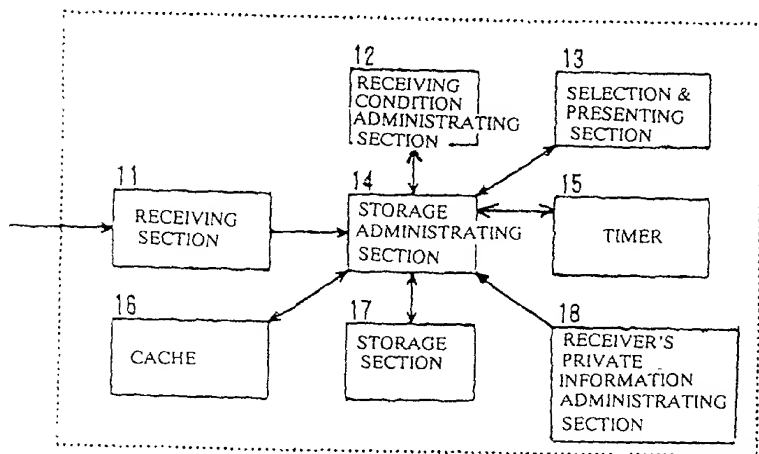


FIG. 16



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FIG. 13

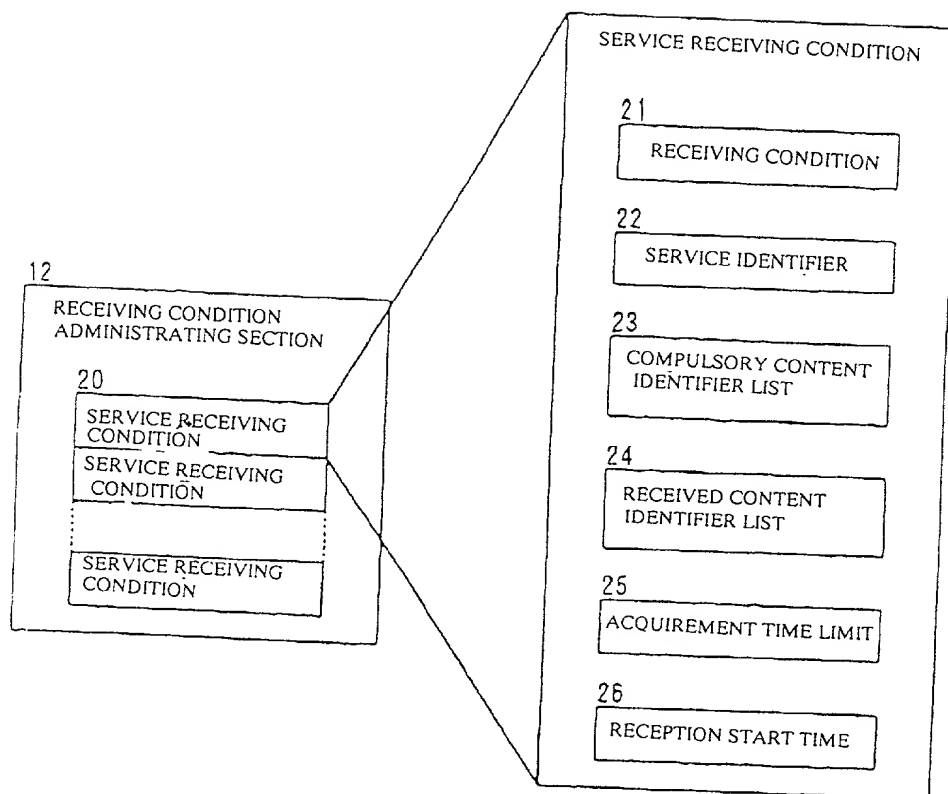


FIG. 14A

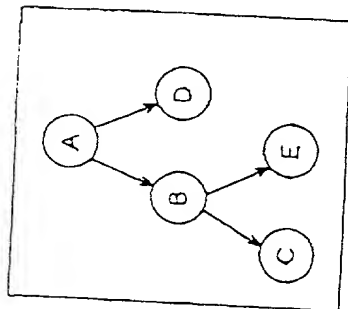


FIG. 14B

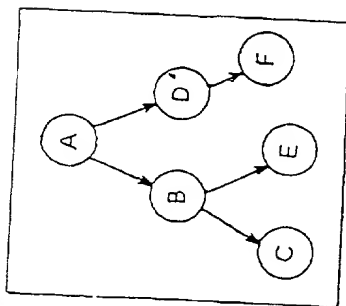


FIG. 14C

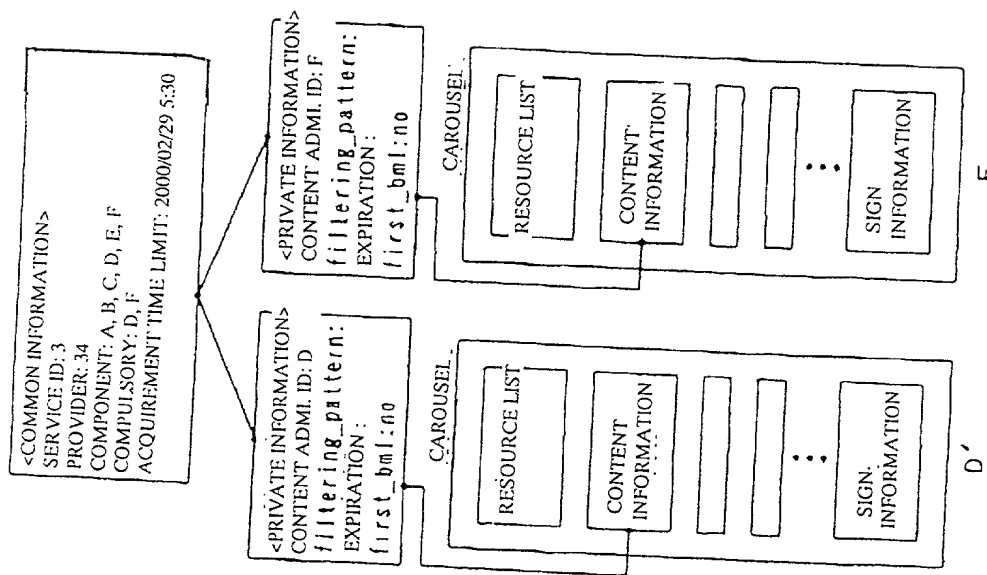


FIG. 15A

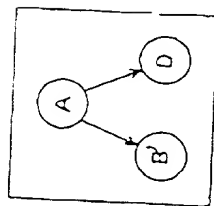
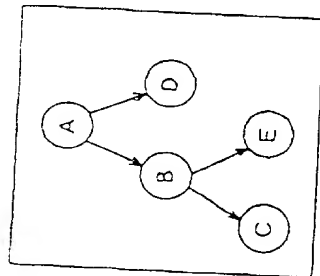


FIG. 15C

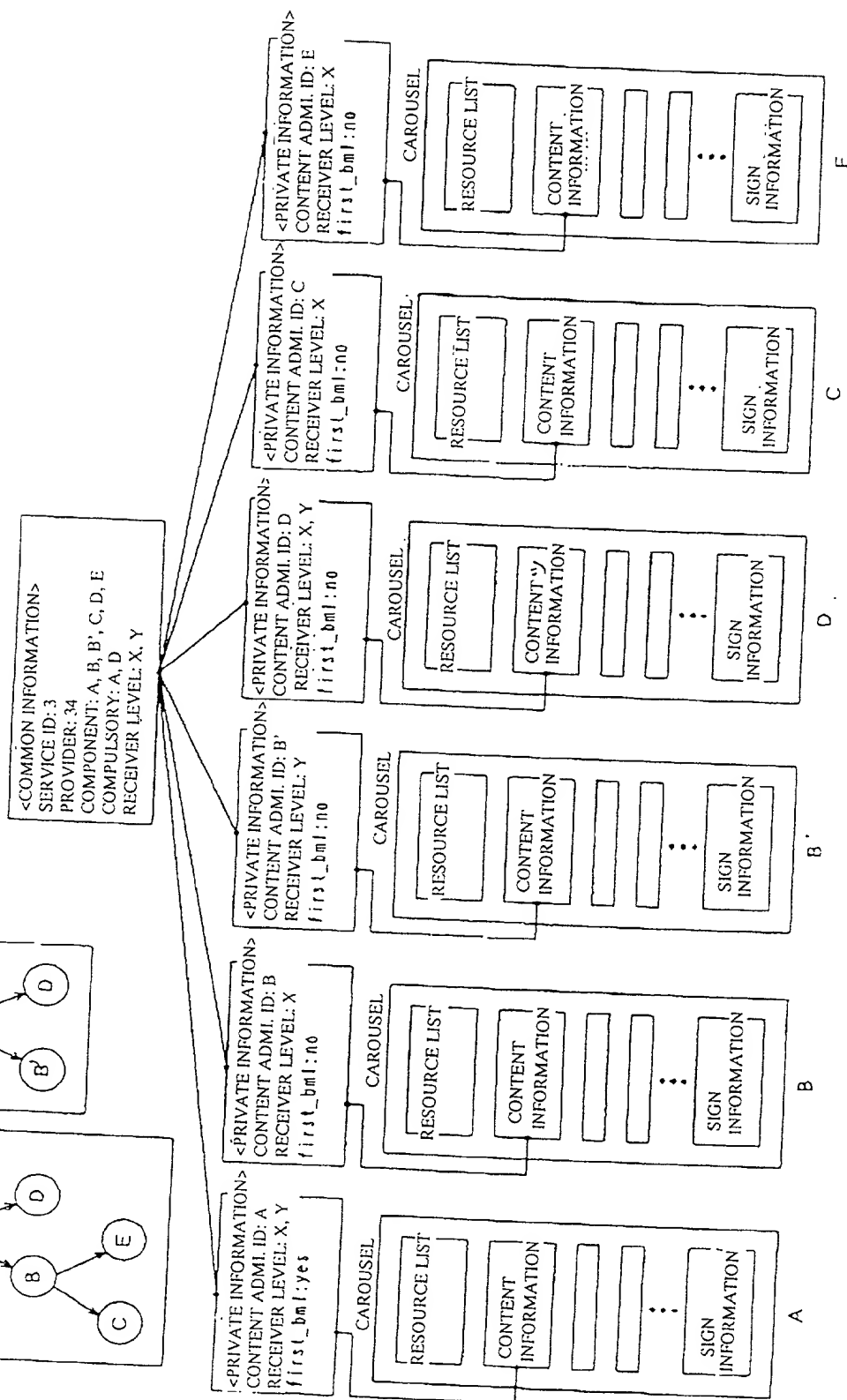


FIG. 17

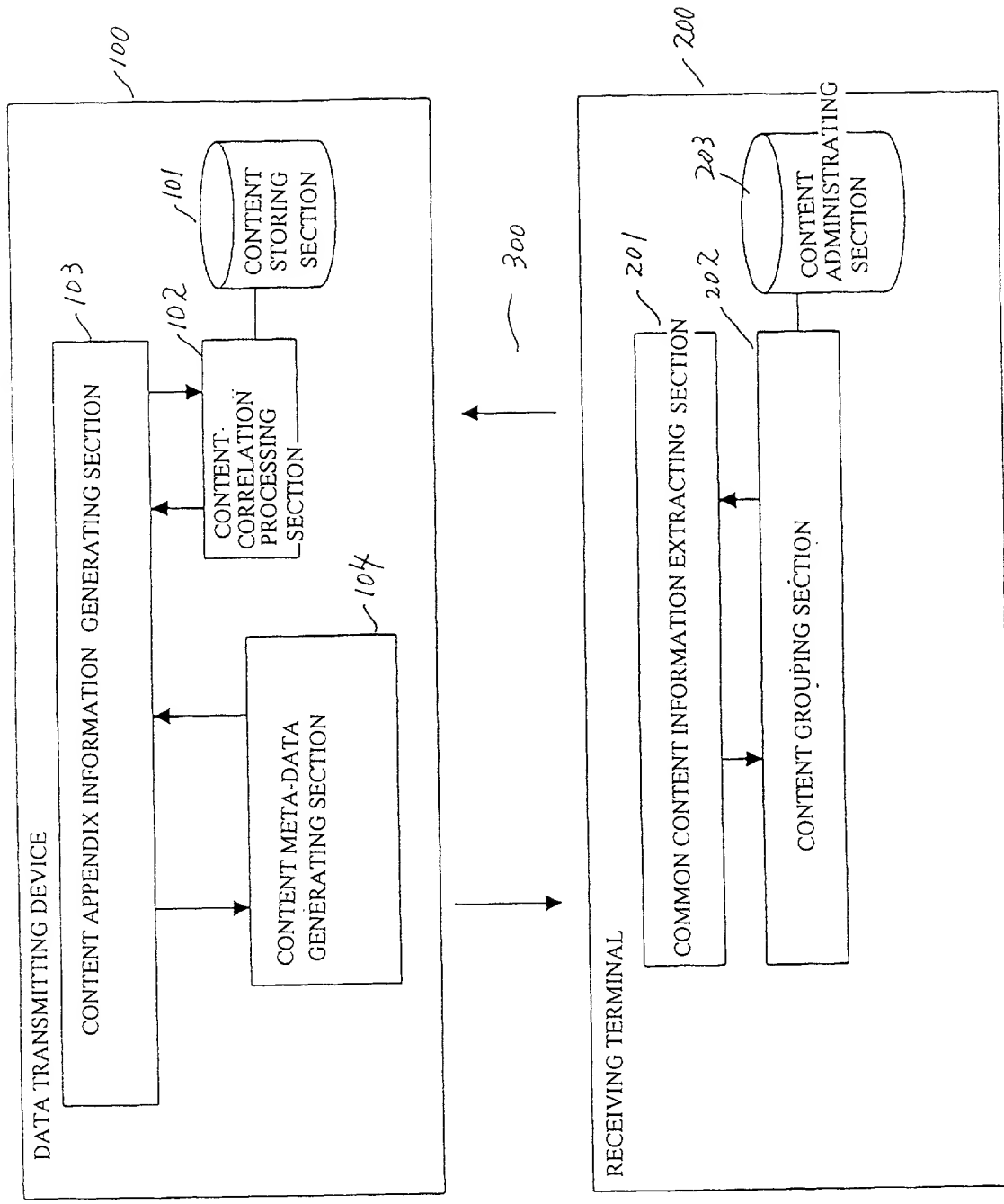


FIG. 18A

DATA TRANSMITTING OPERATION

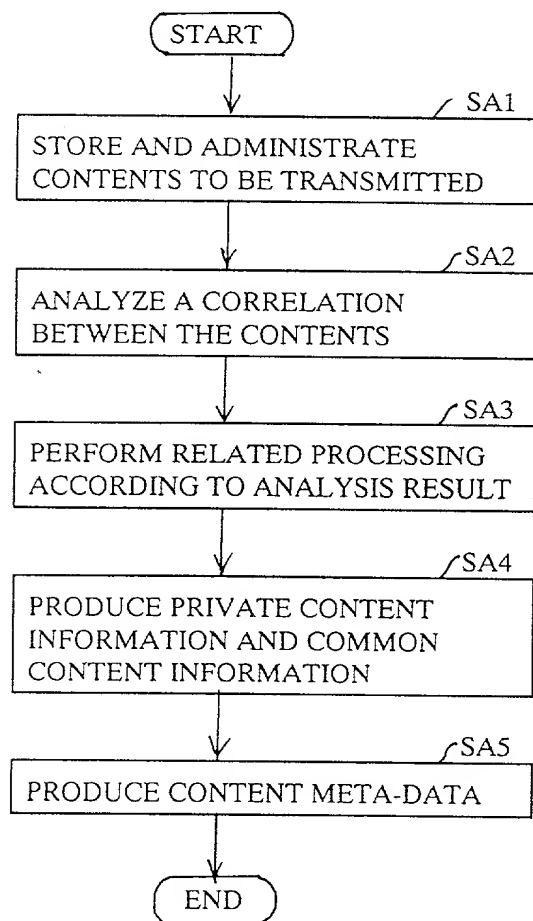


FIG. 18B

DATA RECEIVING OPERATION

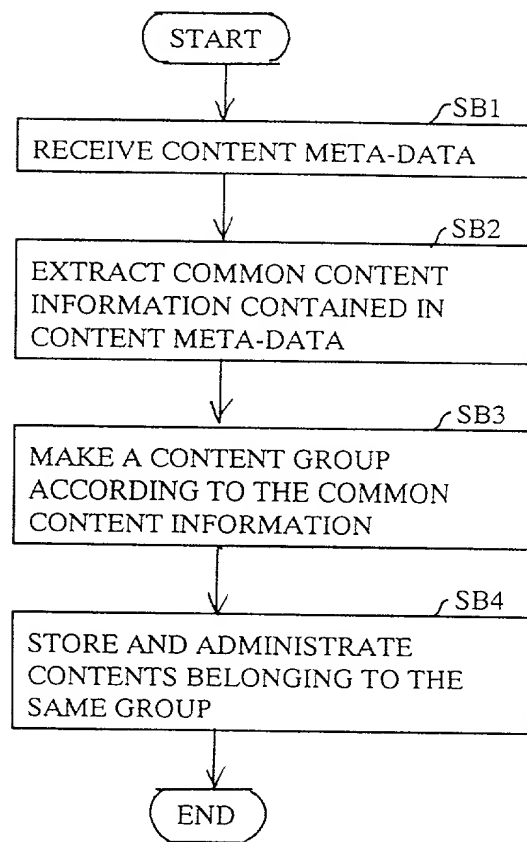




FIG. 19

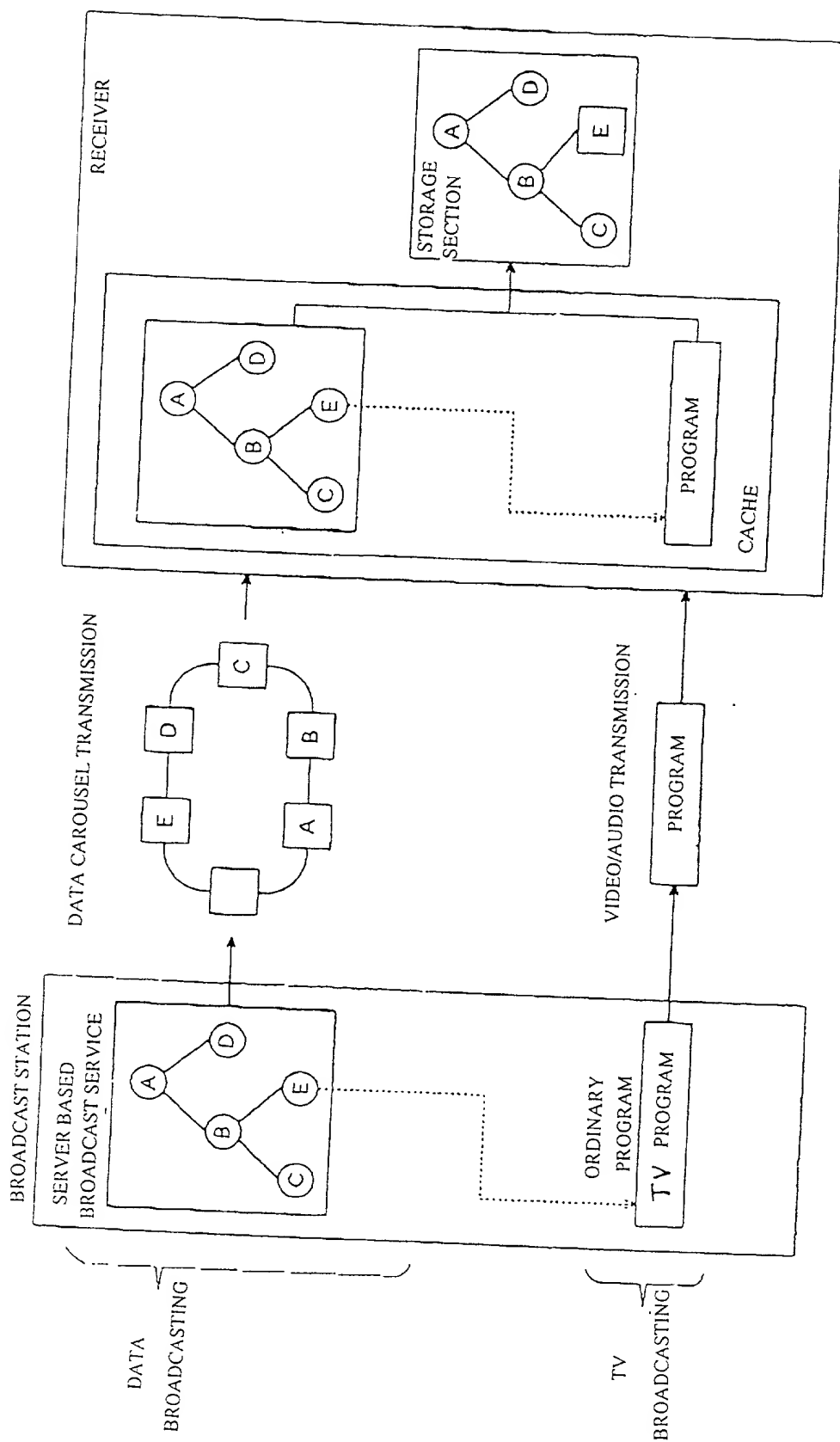


FIG. 20A

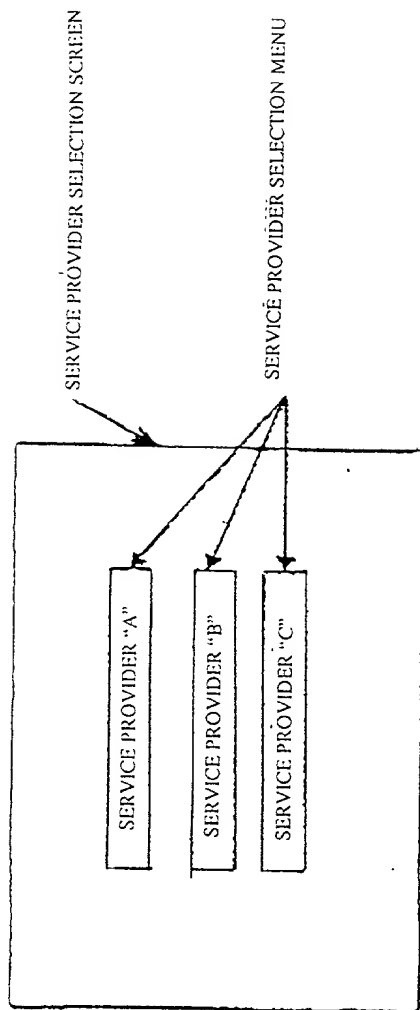
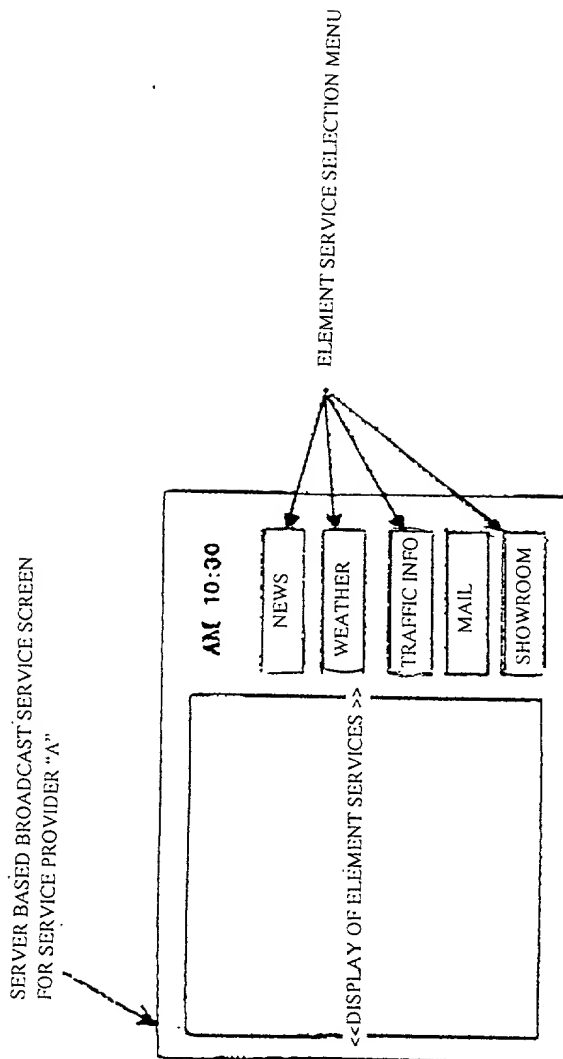


FIG. 20B



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